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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/667,113	09/18/2003	Gabriele Barlocchi	854063.552D1	2816
SEED INTELLECTUAL PROPERTY LAW GROUP PLLC 701 FIFTH AVE SUITE 5400 SEATTLE, WA 98104			EXAMINER	
			ERDEM, FAZLI	
			ART UNIT	PAPER NUMBER
			2826	
			MAIL DATE	DELIVERY MODE
			03/26/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)		
10/667,113	BARLOCCHI ET AL.		
Examiner	Art Unit		
FAZLI ERDEM	2826		

	17 ZEI ERBEW	2020
The MAILING DATE of this communication appe	ars on the cover sheet with the	correspondence address
THE REPLY FILED <u>11 March 2008</u> FAILS TO PLACE THIS AP	PLICATION IN CONDITION FOR	ALLOWANCE.
1. The reply was filed after a final rejection, but prior to or on application, applicant must timely file one of the following application in condition for allowance; (2) a Notice of Appelor Continued Examination (RCE) in compliance with 37 C periods:	replies: (1) an amendment, affidavi eal (with appeal fee) in compliance	it, or other evidence, which places the with 37 CFR 41.31; or (3) a Request
a) The period for reply expiresmonths from the mailing	date of the final rejection.	
b) The period for reply expires on: (1) the mailing date of this A no event, however, will the statutory period for reply expire to Examiner Note: If box 1 is checked, check either box (a) or (ater than SIX MONTHS from the mailing b). ONLY CHECK BOX (b) WHEN THE	g date of the final rejection.
MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f Extensions of time may be obtained under 37 CFR 1.136(a). The date of have been filed is the date for purposes of determining the period of extunder 37 CFR 1.17(a) is calculated from: (1) the expiration date of the set forth in (b) above, if checked. Any reply received by the Office later may reduce any earned patent term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL	on which the petition under 37 CFR 1.1 ension and the corresponding amount hortened statutory period for reply origi	of the fee. The appropriate extension fee inally set in the final Office action; or (2) as
2. The Notice of Appeal was filed on A brief in comp	liance with 37 CFR 41.37 must be	filed within two months of the date of
filing the Notice of Appeal (37 CFR 41.37(a)), or any exter Notice of Appeal has been filed, any reply must be filed wi AMENDMENTS	nsion thereof (37 CFR 41.37(e)), to	avoid dismissal of the appeal. Since a
3. The proposed amendment(s) filed after a final rejection, by (a) They raise new issues that would require further cor (b) They raise the issue of new matter (see NOTE below.	nsideration and/or search (see NO	
(c) They are not deemed to place the application in better appeal; and/or	ter form for appeal by materially re	
(d) They present additional claims without canceling a converse NOTE: (See 37 CFR 1.116 and 41.33(a)).		
4. The amendments are not in compliance with 37 CFR 1.12		mpliant Amendment (PTOL-324).
5. Applicant's reply has overcome the following rejection(s):		
 Newly proposed or amended claim(s) would be all non-allowable claim(s). For purposes of appeal, the proposed amendment(s): a) [·	
how the new or amended claims would be rejected is prov The status of the claim(s) is (or will be) as follows: Claim(s) allowed: Claim(s) objected to: Claim(s) rejected: 8-13 and 21-35. Claim(s) withdrawn from consideration:		ii be entered and an explanation of
AFFIDAVIT OR OTHER EVIDENCE		
 The affidavit or other evidence filed after a final action, but because applicant failed to provide a showing of good and was not earlier presented. See 37 CFR 1.116(e). 		
9. The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to o showing a good and sufficient reasons why it is necessary	vercome <u>all</u> rejections under appea	al and/or appellant fails to provide a
10. ☐ The affidavit or other evidence is entered. An explanation REQUEST FOR RECONSIDERATION/OTHER	n of the status of the claims after e	ntry is below or attached.
 The request for reconsideration has been considered but <u>See Continuation Sheet.</u> 		n condition for allowance because:
12. ☐ Note the attached Information <i>Disclosure Statement</i>(s). (13. ☐ Other:	PTO/SB/08) Paper No(s)	
FE	/Thomas L Dickey/	
3/23/08	Primary Examiner, Art U	Jnit 2826
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Continuation of 11. does NOT place the application in condition for allowance because:

Applicants assert, "one of ordinary skill would not be motivated to stop the process of Sparks et al. in order to add the missing elements from different structures using different processes." However, Applicants point to no evi-dence in the record to support this assertion. Applicants assert, "in order to create a single monocrystalline substrate in Sparks et al., one would have to re-move the highly N-doped layers (see Figures 10a, 10b, and 10c)." However, Applicants point to no evidence in the record to support this assertion.

Applicants assert. "In that case, however, the resulting structure would have a small area." However, Applicants point to no evidence in the record to support this assertion.

Applicants assert, "In that case, however, the resulting structure would have a small area." However, Applicants point to no evidence in the record to support this assertion.

Applicants argue, "In contrast, the present claimed structure has no limitation resulting from the use of the forma-tion of channels and diaphragms in a substrate that is monocrystalline in nature, allowing the channels and dia-phragms to be formed of any desired dimension." However, each of Applicants' claims recites "a structure [or wafer] COMPRISING..." [emphasis added]. The transitional term "comprising" is inclusive or open-ended and does not ex-clude additional, unrecited elements or method steps. See MPEP § 2111.03. Hence, the fact that certain limitations are not recited in the present claims cannot be construed to prohibit "the use of the formation of channels and diaphragms in a substrate."

Applicants assert, "Another approach would be to bond more substrates together, although the end result would not be a monocrystalline substrate." However, Applicants point to no evidence in the record to support this assertion.

Applicants assert, "it is improper to use a structure disclosed in an intermediate step in combination with other references to achieve the claimed combination." However, Applicants cite no section of the MPEP, no rule, no stat-ute, and no caselaw in support of this assertion. Applicants argue, "One of skill in the art would not look to the combination of the two Sparks references and the MacDonald patent or the combination of Sparks et al. and Mirza et al. to achieve the claimed monocrystalline struc-ture... There is no teaching, suggestion, or discussion in Sparks et al. that the intermediate structure shown in Fig-ures 6, 7, and 10c was intended to be a final product as modified by Sparks '121 and MacDonald. Nowhere in Sparks et al. '069 is there any teaching or suggestion that the intermediate structure shown in Figures 6, 7, and 10c could or should be modified except as shown in this single reference. A review of both the Sparks '121 and MacDonald sec-ondary references finds absolutely no teaching or suggestion in these references for taking the small feature singled out in these references by the Examiner and applying it to any other process, much less to the Sparks et al. process to achieve the claimed structure." However, a suggestion, teaching, or motivation to combine the relevant prior art teachings does not have to be found explicitly in the prior art, as "the teaching, motivation, or suggestion may be im-plicit from the prior art as a whole, rather than expressly stated in the references.... The test for an implicit showing is what the combined teachings, knowledge of one of ordinary skill in the art, and the nature of the problem to be solved as a whole would have suggested to those of ordinary skill in the art." Alza Corp. v. Mylan Laboratories Inc., 80 USPQ2d 1001, 1006 (Fed. Cir. 2006), citing In re Kahn, 441 F.3d 977, 987-988, 78 USPQ2d 1329, 1340 (Fed. Cir. 2006) (which, in its turn, quotes In re Kotzab, 217 F.3d 1365, 1370, 55 USPQ2d 1313,1318 (Fed. Cir. 2000)). See also DyStar Textilfarben GmbH & Co. Deutschland KG v. C.H. Patrick Co., 80 USPQ2d 1641 (Fed. Cir. 2006) and Old Town Canoe Co. v. Confluence Holdings Corp., 78 USPQ2d 1705 (Fed. Cir. 2006). It is therefore improper to suggest, as applicant does, that if there is "absolutely no teaching or suggestion in these references," there must therefore, as a matter of law, be no "suggestion, teaching, or motivation to combine the relevant prior art teachings." Alza, 80 USPQ2d at 1003.

Applicants argue, "The Examiner cites column 5, lines 35-40 and column 2, lines 35-50 of Sparks et al. '069 and column 5, lines 15-25 of Sparks '121, describing that the substrate need to be 'a suitable substrate,' as an inherent 'hint' that a monolithic substrate is somehow desirable." However, as discussed above, the teaching, motivation, or suggestion may be implicit (i.e., may result from inherent "hints") from the prior art as a whole, rather than expressly stated in the references. Alza, 80 USPQ2d at 1006; Kahn, 441 F.3d at 987-988; Kotzab, 217 F.3d at 1370.

Applicants assert, "one would have to remove the N+ areas in order to achieve such a substrate, which is clearly not suggested or expected by Sparks et al. '069 much less the two secondary references' However, Applicants point to no evidence in the record to support this assertion.

It would have been obvious to one of having ordinary skill in the art at the time the invention was made to replace the polysilicon membrane layer 36 in Sparks et al. with an epitaxial membrane layer as taught by Sparks and replace the substrate with monolithic/single crystal substrate as taught by MacDonald et al. in order to have a sensor struc-ture with a better compatibility between the substrate/epitaxial layer and the membrane layer since an epitaxial mem-brane layer would be better compatible with an epitaxial layer.